

IN THE CLAIMS

Please cancel claims 19-60 and 63-68 as follows:

1. (ORIGINAL) A system for uplinking signals, comprising:
a first receiver for receiving a first feeder link signal using a first feeder link spot beam antenna for a first satellite transponder, the first satellite transponder transmitting an upper layer signal of a layered modulation signal to at least one receiver;
a second receiver for receiving a second feeder link signal using a second feeder link spot beam antenna for a second satellite transponder, the second satellite transponder transmitting a lower layer signal of the layered modulation signal to the at least one receiver;
wherein the first feeder link spot beam antenna transmits from a first coverage area and the second feeder link spot beam antenna transmits from a second coverage area distinct from the first coverage area and the second feeder link signal reuses a frequency spectrum of the first feeder link signal.
2. (ORIGINAL) The system of claim 1, wherein a first frequency bandwidth of the upper layer signal partially overlaps a second frequency bandwidth of the lower layer signal.
3. (ORIGINAL) The system of claim 1, wherein a first frequency bandwidth of the upper layer signal completely overlaps a second frequency bandwidth of the lower layer signal.
4. (ORIGINAL) The system of claim 1, wherein the upper layer signal comprises a legacy signal.
5. (ORIGINAL) The system of claim 1, wherein the first transponder and the second transponder are both on a common satellite.
6. (ORIGINAL) The system of claim 1, wherein the first transponder and the second transponder are each on a different satellite.
7. (ORIGINAL) The system of claim 1, wherein the first transponder and the second transponder include amplifiers operable substantially at saturation.

8. (ORIGINAL) The system of claim 1, wherein the first satellite transponder for the upper layer signal includes a power combiner.

9. (ORIGINAL) The system of claim 1, wherein at least one of the first feeder link signal and the second feeder link signal are power level adjusted to maintain a relative power level between the upper layer signal and the lower layer signal for reception.

10. (ORIGINAL) A method of uplinking signals, comprising:
receiving a first feeder link signal using a first feeder link spot beam antenna for a first satellite transponder, the first satellite transponder transmitting an upper layer signal of a layered modulation signal to at least one receiver;
receiving a second feeder link signal using a second feeder link spot beam antenna for a second satellite transponder, the second satellite transponder transmitting a lower layer signal of the layered modulation signal to the at least one receiver;
wherein the first feeder link spot beam antenna transmits from a first coverage area and the second feeder link spot beam antenna transmits from a second coverage area distinct from the first coverage area and the second feeder link signal reuses a frequency spectrum of the first feeder link signal.

11. (ORIGINAL) The method of claim 10, wherein a first frequency bandwidth of the upper layer signal partially overlaps a second frequency bandwidth of the lower layer signal.

12. (ORIGINAL) The method of claim 10, wherein a first frequency bandwidth of the upper layer signal completely overlaps a second frequency bandwidth of the lower layer signal.

13. (ORIGINAL) The method of claim 10, wherein the upper layer signal comprises a legacy signal.

14. (ORIGINAL) The method of claim 10, wherein the first transponder and the second transponder are both on a common satellite.

15. (ORIGINAL) The method of claim 10, wherein the first transponder and the second transponder are each on a different satellite.

16. (ORIGINAL) The method of claim 10, wherein the first satellite transponder and the second satellite transponder include amplifiers operable substantially at saturation.

17. (ORIGINAL) The method of claim 10, wherein the first satellite transponder for the upper layer signal includes a power combiner.

18. (ORIGINAL) The method of claim 10, wherein at least one of the first feeder link signal and the second feeder link signal are power level adjusted to maintain a relative power level between the upper layer signal and the lower layer signal for reception.

19. - 60. (CANCELED)

61. (PREVIOUSLY PRESENTED) The system of claim 1, wherein the upper layer signal and the lower layer signal are non-coherent.

62. (PREVIOUSLY PRESENTED) The method of claim 10, wherein the upper layer signal and the lower layer signal are non-coherent.

63. - 68. (CANCELED)